

{In Archive} Fw: RE: Correction - First Set of Directions - Model Revisions

Denessa Moses to: Sullivan.Alexandra Cc: Zatz.Michael, Quarforth.Alyssa

03/19/2007 06:51 AM

History:

This message has been replied to.

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~ ©	Alexandra Sullivan	03/19/2007 09:28 AM	Ø.	Re: Fw: RE: Correction - First \$
න	Denessa Moses	03/19/2007 11:34 AM		Re: Fw: RE: Correction -

Alexandra.

See attached SRA's response to the document that you sent regarding the model revisions.

- Denessa

-----Forwarded by Denessa Moses/DC/USEPA/US on 03/19/2007 06:48AM -----

To: Denessa Moses/DC/USEPA/US@EPA

From: "Mikulka, Kristine" < Kristine_Mikulka@sra.com>

Date: 03/16/2007 05:22PM

Subject: RE: Correction - First Set of Directions - Model Revisions

Denessa -

I have attached our document with questions in response to Model Revisions document. Please let me know if you would like to set up a meeting to discuss.

Thanks, Kris

----Original Message----

From: Moses.Denessa@epamail.epa.gov [mailto:Moses.Denessa@epamail.epa.gov] Sent: Wednesday, March 07, 2007 9:00 AM

To: Mikulka, Kristine

Subject: Fw: Correction - First Set of Directions -

Model Revisions

---- Forwarded by Denessa Moses/DC/USEPA/US on 03/07/2007 08:58 AM

Alexandra

Sullivan/DC/USEP

A/US

To

Denessa

Moses/DC/USEPA/US@EPA

03/07/2007 08:56

CC

MA

Michael

Zatz/DC/USEPA/US@EPA,

Alyssa

Quarforth/DC/USEPA/US@EPA

Subject

Correction -

First Set of

Directions -

Model Revisions

(Document link:

Denessa Moses)

Denessa,

Sorry! there was a minor error in one of the tables (page 5, item 1.d).
I have corrected this table.

Thanks, Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

-----Alexandra Sullivan/DC/USEPA/US wrote: -----

To: Denessa Moses/DC/USEPA/US@EPA From: Alexandra Sullivan/DC/USEPA/US

Date: 03/07/2007 08:50AM

cc: Michael Zatz/DC/USEPA/US@EPA, Alyssa

Quarforth/DC/USEPA/US@EPA

Subject: First Set of Directions - Model Revisions

Denessa,

I've attached a document outlining the major changes we would like to include with the office model revision. I have tried to hit on all of the major points at a high level, although some items are still under review (these are highlighted in yellow in the document). I believe this will give SRA enough information to begin work and development, and to plan out a timeframe for the release.

The first page of the document provides an outline with basic information (such as, that we will need SRA to test the impact of changes on the ratings of all buildings in PM). As you are more familiar with how this type of testing has worked in the past, please feel free to change that language as you see fit.

While in Atlanta, I can be reached by cell phone:
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I will

also try to stay on top of email. However because I

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so I am limited to

the hotel business center. So, if there are any immediate questions, it would best if you could call. Otherwise we can plan to talk next week.

Thank you,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

(See attached file: Phasel_Revisions Direction.doc)



Office Space Model Questions03162007.doc

{In Archive} Re: Fw: RE: Correction - First Set of Directions - Model Revisions

Alexandra Sullivan to: Denessa Moses

03/19/2007 09:28 AM

Cc: Quarforth.Alyssa, Zatz.Michael

Archive:

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	Da Seer Collectoject			
<u> </u>	Alexandra Sullivan	03/19/2007 09:28 AM	₩.	Re: Fw: RE: Correction - First
2	Denessa Moses	03/19/2007 11:34 AM		Re: Fw: RE: Correction -

Denessa,

I've annotated SRA's document with EPA responses.

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



Phase1 SRA Questions 1_Response.doc

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US 03/19/2007 06:50 AM

To Sullivan.Alexandra@epa.gov

cc Zatz.Michael@epa.gov, Quarforth.Alyssa@epa.gov

Subject Fw: RE: Correction - First Set of Directions - Model Revisions

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Sent: Wednesday, March 07, 2007 9:00 AM

To: Mikulka, Kristine

Subject: Fw: Correction - First Set of Directions - Model Revisions

---- Forwarded by Denessa Moses/DC/USEPA/US on 03/07/2007 08:58 AM

Alexandra Sullivan/DC/USEP A/US

03/07/2007 08:56 AM Denessa Moses/DC/USEPA/US@EPA

CC

TO

Michael Zatz/DC/USEPA/US@EPA, Alyssa Quarforth/DC/USEPA/US@EPA Subject

Correction - First Set of Directions - Model Revisions (Document link: Denessa Moses)

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cc: Michael Zatz/DC/USEPA/US@EPA, Alyssa Quarforth/DC/USEPA/US@EPA

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Thank you,

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U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

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Office Space Model Questions03162007.doc



{In Archive} Re: Fw: RE: Correction - First Set of Directions - Model

Revisions 🗎

Denessa Moses to: Alexandra Sullivan

03/19/2007 11:34 AM

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- Denessa

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To: Denessa Moses/DC/USEPA/US@EPA From: Alexandra Sullivan/DC/USEPA/US

Date: 03/19/2007 08:28AM

cc: Quarforth.Alyssa@epa.gov, Zatz.Michael@epa.gov

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Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

Denessa Moses/DC/USEPA/US

Denessa Moses/DC/USEPA/US

03/19/2007 06:50 AM

ToSullivan.Alexandra@epa.gov

ccZatz.Michael@epa.gov, Quarforth.Alyssa@epa.gov

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Subject: Fw: Correction - First Set of Directions - Model Revisions

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Alexandra

Sullivan/DC/USEP

A/US

To

Denessa Moses/DC/USEPA/US@EPA

03/07/2007 08:56

CC

AM

Michael Zatz/DC/USEPA/US@EPA, Alyssa Quarforth/DC/USEPA/US@EPA

Subject

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U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

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cc: Michael Zatz/DC/USEPA/US@EPA, Alyssa Quarforth/DC/USEPA/US@EPA

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Thank you,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov (See attached file: Phase1_Revisions_Direction.doc)

[attachment "Office Space Model Questions03162007.doc" removed by Denessa Moses/DC/USEPA/US] [attachment "Phase1 SRA Questions 1_Response.doc" removed by Denessa Moses/DC/USEPA/US]



[In Archive] Fw: Office Rating Model Changes - Additional Questions

Denessa Moses to: Alexandra Sullivan, Alyssa Quarforth

03/28/2007 12:58 PM

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

	Daßerßindoject			2
Î	Alexandra Sullivan	03/28/2007 02:54 PM	Ø	Re: Fw: Office Rating Model Cl
2	Cindy Jacobs	03/28/2007 03:08 PM	Ø 4	Re: Fw: Office Rating Mo
<u></u>	Alexandra Sullivan	04/02/2007 05:23 PM	Ø	Re: Fw: Office Rat

More questions from SRA...

---- Forwarded by Denessa Moses/DC/USEPA/US on 03/28/2007 12:57 PM -----



"Mikulka, Kristine" <Kristine_Mikulka@sra.com> 03/28/2007 12:54 PM

To Denessa Moses/DC/USEPA/US@EPA

CC

Subject Office Rating Model Changes - Additional Questions

Hi Denessa -

I have attached a document that has our new questions and the known outstanding items. I am hoping it will help us track everything. If there are any of the new questions that can be answered that would help us to keep moving forward. Please let me know if you have any questions.

Thanks, Kris

Kristine Mikulka

Project Manager kristine mikulka@sra.com 703-284-6913

W

Space Model_OfficeQuestions-Issues.doc

{In Archive} Re: Fw: Office Rating Model Changes - Additional Questions

Alexandra Sullivan to: Alyssa Quarforth, Cindy Jacobs

03/28/2007 02:54 PM

Cc: Michael Zatz

Archive:

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3	Alexandra Sullivan	03/28/2007 02:54 PM	ØP.	Re: Fw: Office Rating Model C
2	Cindy Jacobs	03/28/2007 03:08 PM	∅ ↓	Re: Fw: Office Rating Mo
3	Alexandra Sullivan	04/02/2007 05:23 PM	@	Re: Fw: Office Rat

Aly/Cindy,

Could you please look over my responses and let me know if you have anything to add?

Cindy, I am particularly interested in your perspective for the question about what information we will want to see in order to assess the score changes. I understand that this may be hard to predicted ahead of time, but we'll have to do our best.

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov





Phase1 SRA Question 2_Response.doc Template.Changes.xls

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US 03/28/2007 12:58 PM

To Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

СС

Subject Fw: Office Rating Model Changes - Additional Questions

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03/28/2007 12:54 PM



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Project Manager kristine mikulka@sra.com 703-284-6913



Space Model_OfficeQuestions-Issues.doc

	Daster stebieto ject			
ā	Alexandra Sullivan	03/28/2007 02:54 PM	Ø	Re: Fw: Office Rating Model Cl
2	Cindy Jacobs	03/28/2007 03:08 PM	Ø 4	Re: Fw: Office Rating Mo
3	Alexandra Sullivan	04/02/2007 05:23 PM	Ø	Re: Fw: Office Rat

Alexandra,

I think your answers look complete given we still need to make decisions on a variety of items.

Aly

Alyssa Quarforth
US EPA
ENERGY STAR
Mail Code: 6406J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov
Alexandra Sullivan/DC/USEPA/US

Alexandra Sullivan/DC/USEPA/US

03/28/2007 02:54 PM

To Alyssa Quarforth/DC/USEPA/US@EPA, Cindy Jacobs/DC/USEPA/US@EPA

cc Michael Zatz/DC/USEPA/US@EPA

Subject $\begin{tabular}{ll} Re: Fw: Office Rating Model Changes - Additional Questions \\ \begin{tabular}{ll} Policy & Policy &$

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U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov





Phase1 SRA Question 2_Response.doc Template.Changes.xls

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US 03/28/2007 12:58 PM

To Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

CC

Subject Fw: Office Rating Model Changes - Additional Questions

More questions from SRA...
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To Denessa Moses/DC/USEPA/US@EPA

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Kristine Mikulka

Project Manager kristine mikulka@sra.com 703-284-6913



Space Model_OfficeQuestions-Issues.doc

{In Archive} Re: Fw: Office Rating Model Changes - Additional Questions

Alexandra Sullivan to: Denessa Moses

04/02/2007 05:22 PM

Cc: Alyssa Quarforth

Archive:

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L)a&er&Menbject			
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2	Cindy Jacobs	03/28/2007 03:08 PM	Ø 4	Re: Fw: Office Rating Mo
_]	Alexandra Sullivan	04/02/2007 05:23 PM	O	Re: Fw: Office Rat

Denessa,

We've answered the questions, in Blue. The excel template goes with answer 1.1.1.2

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov





Phase1 SRA Question 2_Response.doc Template.Changes.xls

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US

03/28/2007 12:58 PM

To Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

CC

Subject Fw: Office Rating Model Changes - Additional Questions

More questions from SRA...

----- Forwarded by Denessa Moses/DC/USEPA/US on 03/28/2007 12:57 PM -----



"Mikulka, Kristine"

<Kristine_Mikulka@sra.com>

To Denessa Moses/DC/USEPA/US@EPA

03/28/2007 12:54 PM

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Kristine Mikulka

Project Manager kristine mikulka@sra.com 703-284-6913



Space Model_OfficeQuestions-Issues.doc

{In Archive} Updates on Direction about Office

This message is being viewed in an archive.

Alexandra Sullivan to: Denessa Moses

04/13/2007 05:29 PM

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-7 A I						

Denessa,

I had told SRA I would have these updates out this week, so I sent them directly to Kris (copying you), since you were not in today. I hope that is okay!

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



{In Archive} Fw: Office Rating Model Questions

Denessa Moses to: Alexandra Sullivan, Alyssa Quarforth

04/27/2007 08:19 AM

History:

This message has been replied to.

Archive:

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l	Da&er©debject			
	Alexandra Sullivan	04/27/2007 09:09 AM	Ø	Re: Fw: Office Rating Model Q
2	Alyssa Quarforth	04/27/2007 09:22 AM	#	Re: Fw: Office Rating Model Q
<u></u>	Alexandra Sullivan	04/27/2007 09:25 AM		Re: Fw: Office Rating Mo

Ladies...

---- Forwarded by Denessa Moses/DC/USEPA/US on 04/27/2007 08:19 AM -----



"Mikulka, Kristine" <Kristine_Mikulka@sra.com>

To Denessa Moses/DC/USEPA/US@EPA

04/27/2007 08:08 AM

CC

Subject Office Rating Model Questions

Hi Denessa -

I have attached the new and outstanding office rating model questions. We have put the new questions at the top so no one would have to look through the document. Please let me know if you have any questions.

Thanks, Kris

Kristine Mikulka

Project Manager kristine mikulka@sra.com 703-284-6913



Space Model_OfficeQuestions-Issues_4_26.doc

{In Archive} Re: Fw: Office Rating Model Questions

Alexandra Sullivan to: Denessa Moses

: Alvssa Quarforth

04/27/2007 09:09 AM

CC.	All	ssa	Quar	torth

Archive: This message is being viewed in an archive.

	Dasershebject			Ε
- 	Alexandra Sullivan	04/27/2007 09:09 AM	®	Re: Fw: Office Rating Model Q
۵	Alyssa Quarforth	04/27/2007 09:22 AM	∅ ♦	Re: Fw: Office Rating Model Q
-1	Alexandra Sullivan	04/27/2007 09:25 AM		Re: Fw: Office Rating Mo

Denessa.

Here are responses for SRA. There is no update to the "outstanding" issues under 1.7, because at this point they all depend on Source conversions. I am working to finalize this ASAP! In fact, Aly and I just got some things for our contractors, so we will review these and get moving.

As far as the other questions, I will also copy them into the master document under that numbering scheme, which I think is a little clearer because questions don't change each time (for example, what they refer to as Question 1.3 is numbered 2.3 in their document).

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



P1_SRAQuestions3_Response.doc

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US 04/27/2007 08:19 AM

To Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

CC

Subject Fw: Office Rating Model Questions

Ladies...

---- Forwarded by Denessa Moses/DC/USEPA/US on 04/27/2007 08:19 AM -----

(and w)

"Mikulka, Kristine"



<Kristine_Mikulka@sra.com> 04/27/2007 08:08 AM

To Denessa Moses/DC/USEPA/US@EPA

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Project Manager kristine mikulka@sra.com 703-284-6913



Space Model_OfficeQuestions-Issues_4_26.doc

{In Archive} Re: Fw: Office Rating Model Questions

Alyssa Quarforth	to: Alexandra Sullivan	04/27/2007 09:22 AM

History: This mes		ssage has been replied to.		
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Das	Beer Balentoject			
^ ©	Alexandra Sullivan	04/27/2007 09:09 AM	Ø	Re: Fw: Office Rating Model Q
<u>a</u>	Alyssa Quarforth	04/27/2007 09:22 AM	6 4	Re: Fw: Office Rating Model Q
<i>3</i>	Alexandra Sullivan	04/27/2007 09:25 AM		Re: Fw: Office Rating Mo

Alexandra,

Because we agree on all the same points, I think one reponse document back to SRA will be suffice. It seems as though there is nothing new to us in their questions or concerns.

Aly

Alyssa Quarforth
US EPA
ENERGY STAR
Mail Code: 6406J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov
Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US

04/27/2007 08:19 AM

To Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

CC

Subject Fw: Office Rating Model Questions

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Project Manager kristine mikulka@sra.com 703-284-6913



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{In Archive} Re: Fw: Office Rating Model Questions Alexandra Sullivan to: Alyssa Quarforth

04/27/2007 09:25 AM

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	Alexandra Sullivan Alyssa Quarforth	Alexandra Sullivan 04/27/2007 09:09 AM Alyssa Quarforth 04/27/2007 09:22 AM	Alexandra Sullivan 04/27/2007 09:09 AM Alyssa Quarforth 04/27/2007 09:22 AM		

Yes,

I think we should definitely keep to one response. The only reason I didn't send this one to you and Cindy for internal review before going to SRA, is because the questions were SO straightforward.

Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

{In Archive} Final Office Model

Alexandra Sullivan to: Kristine_Mikulka

Cc: Denessa Moses, Alyssa Quarforth

Archive:

This message is being viewed in an archive.

Daßerßlebject				

Kris,

Unfortunately a few last minute items caused us to change our mind on some decisions relative to the Office model. Therefore, we want to do one more final QA/QC check internally before we give you the final numbers. We should have everything completed by COB Tuesday.

Sorry for the day!

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov 05/04/2007 04:47 PM

{In Archive} Complete Guidance for the new Office Model

Alexandra Sullivan to: Kristine_Mikulka

Cc: Denessa Moses, Alyssa Quarforth, "Murray, Steve", Michael Zatz

Archive:

This message is being viewed in an archive.

05/07/2007 04:58 PM

	AND STATE OF THE PROPERTY AND P	
Denessa Moses	05/09/2007 02:59 PM	Response Re: Complete Gu
Michael Zatz	05/09/2007 03:24 PM	Re: Response Re: Co
	30/207 30.24 T W	Re. Response Re. C
	Denessa Moses Michael Zatz	55/55/2507 52:55 TW

Kris,

Attached please find a complete version of our Phase 1 Office Model guidance.

This time, there are no more "pending" items highlighted in yellow:)

Please take some time to review and let us know if you have any questions.

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov







P1_Direction_Updated_20070507.doc OfficeModel_LookupTable.xls Template.Changes.xls

{In Archive} Score Changes - Edited Alexandra Sullivan to: Alyssa Quarforth

05/29/2007 11:49 AM

Archive:

This message is being viewed in an archive.

Daßerßlebject					
A1 #					

Aly,

Here is the excel, edited with the table I created.

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



score_comparison_20070525.xls

{In Archive} FYI - supporting Excel Alexandra Sullivan to: Alyssa Quarforth This message is being viewed in an archive.

05/29/2007 04:44 PM

Archive:	This message is being viewed in an archive.
DasSærsslæt	ject
- AL #	

Aly,

Here is another updated excel spreadsheet, which has the calculations I shared with Mike and Cindy in my last email.

Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



score_comparison_20070525.xls



EPA Meeting to discuss "Key Issues w/ Score Change Report"

Fri 06/08/2007 1:00 PM - 1:30

PM

Attendance is **required** for Alexandra Sullivan Chair: Denessa Moses/DC/USEPA/US

No Location Information

Required:

Alexandra Sullivan/DC/USEPA/US, Michael Zatz/DC/USEPA/US

Description

Let's meet in Mike's office.

Personal Notes



Meeting with SRA to discuss QA/QC concerns with model development

Fri 06/08/2007 1:30 PM - 2:00

PM

Attendance is required for Alexandra Sullivan Chair: Denessa Moses/DC/USEPA/US

Rooms:

1310L Room 956/DC-1310L-OAR@EPA

Required:

Alexandra Sullivan/DC/USEPA/US, Kristine_Mikulka@sra.com, Michael Zatz/DC/USEPA/US

Description

Meeting in Conf Rm 956 at 9:30, prior to our Campus meeting.

Personal Notes



Call w/ SRA to discuss Office model guidance from EPA

Wed 06/13/2007 8:30 AM - 10:00

AΜ

Attendance is **required** for Alexandra Sullivan Chair: Denessa Moses/DC/USEPA/US

Rooms:

1310L Room 957/DC-1310L-OAR@EPA

Required:

Alexandra Sullivan/DC/USEPA/US, Alyssa Quarforth/DC/USEPA/US

Description

Kris, please call us at 8:30 on Wed in conf rm 957 at (202) 343-9557.

Personal Notes

{In Archive} Updated Direction for SRA

Alexandra Sullivan to: Denessa Moses

Cc: Alyssa Quarforth, Michael Zatz

Archive:

This message is being viewed in an archive.

Denessa,

Here is an updated version of the direction document. I've added 5 notes (all in bold/red) to reflect the items that we identified during yesterday's meeting. Could you please forward to SRA?

Thanks,

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



P1_Direction_Updated_20070614.doc

06/14/2007 08:44 AM

{In Archive} Document with corrected date Alexandra Sullivan to: Denessa Moses

Cc: Kristine_Mikulka, Alyssa Quarforth

Archive:

This message is being viewed in an archive.

Denessa/Kris.

I am resending the annotated document from this morning. The date is now populated with the date the document was last saved (June 14).

Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



P1_Direction_Updated_20070614.doc

06/14/2007 02:41 PM



{In Archive} Expected delivery date of revised score change report...

Denessa Moses to: Alexandra Sullivan, Alyssa Quarforth Cc: Michael Zatz, Kristine Mikulka 06/15/2007 02:45 PM

Archive:

This message is being viewed in an archive.

FYI, SRA will have the revised score change report to us by the end of next week (June 22nd). Steve Murray is making changes as a result of the issues clarified during our meeting this past Wed. to discuss the Office model guidance document, and will finish up the report over the weekend and hand it over to another SRA developer, Ami Glasberg by COB, Mon, June 18th. Ami will take the next few days QA/QCing the report. Assuming all goes well, we will have the report no later than Fri, June 22nd (maybe sooner).

- Denessa



{In Archive} Fw: Office Model Testing Methodology Denessa Moses to: Alexandra Sullivan, Alyssa Quarforth Cc: zatz.michael

06/21/2007 10:48 AM

Archive:

This message is being viewed in an archive.

----Forwarded by Denessa Moses/DC/USEPA/US on 06/21/2007 10:46AM ----

To: Denessa Moses/DC/USEPA/US@EPA

From: "Mikulka, Kristine" < Kristine_Mikulka@sra.com>

Date: 06/19/2007 01:12PM

Subject: Office Model Testing Methodology

Hi Denessa -

I thought I had sent this to you already but I could not find it in my e-mail sent items. I wanted to make sure you had this so you would know what Ami will be doing to test the new spreadsheet that we will be sending to EPA this week. Please note that we still be creating our standard test plan and perform full testing in test and staging before final release to production.

Thanks, Kristine

Kristine Mikulka

Project Manager

kristine_mikulka@sra.com

703-284-6913



PROPOSED METHOD OF TESTING THE REVISED OFFICE MODEL.doc



{In Archive} RE: Expected delivery date of revised score change report...

Denessa Moses, Alexandra Sullivan, Alyssa Mikulka, Kristine to: Quarforth

06/21/2007 07:26 PM

Cc: Michael Zatz Archive:

This message is being viewed in an archive.

All -

I wanted to let everyone know that we will be delayed in getting the report out for review. Ami has been diligently testing and has come up with some items that will be corrected. Ami will finish his testing tomorrow and then Steve will rerun the report over the weekend. Ami will do another round of QA to make sure the corrections were made and that everything else is as expected. We will have the report completed and tested no later than COB Wednesday, June 27.

Sorry for delay.

Kristine

Kristine Mikulka Project Manager kristine mikulka@sra.com 703-284-6913

----Original Message----

From: Moses.Denessa@epamail.epa.gov [mailto:Moses.Denessa@epamail.epa.gov] Sent: Friday, June 15, 2007 2:45 PM To: Sullivan.Alexandra@epamail.epa.gov; Quarforth.Alyssa@epamail.epa.gov

Cc: Zatz.Michael@epamail.epa.gov; Mikulka, Kristine Subject: Expected delivery date of revised score

change report ...

FYI, SRA will have the revised score change report to us by the end of next week (June 22nd). Steve Murray is making changes as a result of the issues clarified during our meeting this past Wed. to discuss the Office model guidance document, and will finish up the report over the weekend and hand it over to another SRA developer, Ami Glasberg by COB, Mon, June 18th. Ami will take the next few days

QA/QCing the report. Assuming all goes well, we will have the report no later than Fri, June 22nd (maybe sooner).

- Denessa

{In Archive} Re:	Game plan for score changes 🗎	
Alyssa Quarforth	to: Alexandra Sullivan	06/26/2007 04:19 PM

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

Sounds good. I was just looking at office/bank/court. Send me the file and I will begin looking at the other space types.

Alyssa Quarforth
US EPA
ENERGY STAR
Mail Code: 6202J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov
Alexandra Sullivan/DC/USEPA/US

Alexandra Sullivan/DC/USEPA/US

To Alyssa Quarforth/DC/USEPA/US@EPA

06/26/2007 04:12 PM

CC

Subject Game plan for score changes

Now that the score change report is available, let's meet to discuss how we are going to approach the analyses. I figure we can plan to talk tomorrow morning, after we have each had a chance to do a preliminary look at the information.

Can you take the lead on the non-office/bank/court buildings and I'll take the lead on the offices/banks/courts? I have divided the rating changes into one tab for each space, if you want me to forward to you in that format.

Thanks,

Alexandra Sullivan

{In Archive} Re: Game plan for score changes
Alexandra Sullivan to: Alyssa Quarforth

06/26/2007 04:31 PM

Archive:

This message is being viewed in an archive.



ChangesbySpace.xls

Alexandra Sullivan

U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

Alyssa Quarforth/DC/USEPA/US

Alyssa Quarforth/DC/USEPA/US

To Alexandra Sullivan/DC/USEPA/US@EPA

06/26/2007 04:19 PM

CC

Subject Re: Game plan for score changes

Sounds good. I was just looking at office/bank/court. Send me the file and I will begin looking at the other space types.

Alyssa Quarforth
US EPA
ENERGY STAR
Mail Code: 6202J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov
Alexandra Sullivan/DC/USEPA/US

Alexandra
Sullivan/DC/USEPA/US

To Alyssa Quarforth/DC/USEPA/US@EPA

06/26/2007 04:12 PM

CC

Subject Game plan for score changes

Now that the score change report is available, let's meet to discuss how we are going to approach the analyses. I figure we can plan to talk tomorrow morning, after we have each had a chance to do a preliminary look at the information.

Can you take the lead on the non-office/bank/court buildings and I'll take the lead on the

offices/banks/courts? I have divided the rating changes into one tab for each space, if you want me to forward to you in that format.

Thanks,

Alexandra Sullivan

{In Archive} Re: Game plan for score changes Alexandra Sullivan to: Alyssa Quarforth

Archive: This message is being viewed in an archive. 06/26/2007 06:01 PM

Turns out, there is no easy way to do what I did last time.



score_comparison_20070525.xls

Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

Alyssa Quarforth/DC/USEPA/US

Alyssa Quarforth/DC/USEPA/US

To Alexandra Sullivan/DC/USEPA/US@EPA

06/26/2007 04:19 PM

CC

Subject Re: Game plan for score changes

Sounds good. I was just looking at office/bank/court. Send me the file and I will begin looking at the other space types.

Alyssa Quarforth **US EPA ENERGY STAR** Mail Code: 6202J Washington DC 20460 202.343.9604 Quarforth.Alyssa@epa.gov Alexandra Sullivan/DC/USEPA/US

> Alexandra Sullivan/DC/USEPA/US

To Alyssa Quarforth/DC/USEPA/US@EPA

06/26/2007 04:12 PM

CC

Subject Game plan for score changes

Now that the score change report is available, let's meet to discuss how we are going to approach the analyses. I figure we can plan to talk tomorrow morning, after we have each had a chance to do a preliminary look at the information.

Can you take the lead on the non-office/bank/court buildings and I'll take the lead on the offices/banks/courts? I have divided the rating changes into one tab for each space, if you want me to forward to you in that format.

Thanks,

Alexandra Sullivan

{In Archive} New office score change tables

Alyssa Quarforth to: Alexandra Sullivan

07/03/2007 04:55 PM

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

I have not done any analysis yet on these buildings but attached is the raw data of new tables we were just discussing in Mike's office.



NewScoreDropsBelow75.xls

Alyssa Quarforth US EPA **ENERGY STAR** Mail Code: 6202J Washington DC 20460 202.343.9604

Quarforth.Alyssa@epa.gov



{In Archive} Fw: Changes to the Score Comparison report

Denessa Moses to: Alyssa Quarforth, Alexandra Sullivan

07/17/2007 09:47 AM

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

Aly, Alexandra:

See SRA's comment's in **Red text** in the attached document. Color and text formatting is often stripped away when Email is received at SRA, so yesterday I pasted Aly's Email into a Word doc.

- Denessa

---- Forwarded by Denessa Moses/DC/USEPA/US on 07/17/2007 09:42 AM -----



"Mikulka, Kristine" <Kristine_Mikulka@sra.com>

To Denessa Moses/DC/USEPA/US@EPA

07/17/2007 09:22 AM

CC

Subject RE: Changes to the Score Comparison report

I used your document from yesterday; added in Alexandra's comment and then added in ours in red. I hope all the colors came through. Let me know if they do not.

Thanks, Kristine



Comments from Aly (2).doc

{In Archive} Re: Fw: Changes to the Score Comparison report Alexandra Sullivan to: Denessa Moses

07/17/2007 09:52 AM

Cc: Alyssa Quarforth

Archive:

This message is being viewed in an archive.

Denessa,

Looks good to me.

(Aly - please respond to their question about primary spaces/counting. This is directly related to the scoring that you will do, so I figure it is most appropriate for you to answer).

Thanks,

Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov

Denessa Moses/DC/USEPA/US



Denessa Moses/DC/USEPA/US 07/17/2007 09:47 AM

To Alyssa Quarforth/DC/USEPA/US, Alexandra Sullivan/DC/USEPA/US

CC

Subject Fw: Changes to the Score Comparison report

Aly, Alexandra:

See SRA's comment's in Red text in the attached document. Color and text formatting is often stripped away when Email is received at SRA, so yesterday I pasted Aly's Email into a Word doc.

- Denessa

---- Forwarded by Denessa Moses/DC/USEPA/US on 07/17/2007 09:42 AM -----



"Mikulka, Kristine" <Kristine_Mikulka@sra.com>

To Denessa Moses/DC/USEPA/US@EPA

07/17/2007 09:22 AM

CC

Subject RE: Changes to the Score Comparison report

I used your document from yesterday; added in Alexandra's comment and then added in ours in red. I hope all the colors came through. Let me know if they do not.

Thanks, Kristine





{In Archive} Fw: Office Model Requirements Denessa Moses to: Alexandra Sullivan, Alyssa Quarforth

07/31/2007 06:21 PM

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

Alexandra, Aly:

This requirements doc will be used as a foundation for the development of the Office model. It was developed using much of the guidance that you provided to SRA, so it should look familiar -- but please let me know if you see a discrepancy.

Thanks,

- Denessa

-----Forwarded by Denessa Moses/DC/USEPA/US on 07/31/2007 06:18PM -----

To: Denessa Moses/DC/USEPA/US@EPA

From: "Mikulka, Kristine" < Kristine_Mikulka@sra.com>

Date: 07/31/2007 05:31PM

Subject: Office Model Requirements

Hi Denessa?

I have attached the Office model requirements document for review. Please let me know if you have any questions.

Thanks, Kristine

Kristine Mikulka

Project Manager

kristine_mikulka@sra.com

703-284-6913



Space Model_Office_Reqs.doc



{In Archive} Fw: Updated Oct. 1 Release Plan

Denessa Moses to: Alyssa Quarforth, Alexandra Sullivan

Cc: Michael Zatz

History:

This message has been replied to.

Archive:

This message is being viewed in an archive.

Aly, Alexandra:

FYI, see attached Oct. 1 release plan (for Office/Retail/Wastewater) prepared by SRA. I've highlighted the items (in yellow) where EPA has an action item due date. I'll try to remind you the day prior to, or the morning of the due date. Otherwise, let me know if you have any questions.

08/21/2007 07:50 AM

Thanks. Denessa



PM Release Plan Oct 1.xls

{In Ar Alexar Archive	ndra Sullivan to: Alyssa Quarforth	ost recent "Expected Changes" doc? (199/17/2007 05:33 PM n an archive.	
ExpectedCh	_		
BUT, this add a cou	is not ready to go in the aggregate repor ole of things and refine the language.	t. I would just leave a place holder for it. We need to	
Alexandra	Sullivan	r.	
202.343.9	6202J on, DC 20460		
Alyssa Qua	arforth/DC/USEPA/US	*	
	09/17/2007 05:27 PM cc	Alexandra Sullivan/DC/USEPA/US@EPA Can you send me the most recent "Expected Changes" doc?	
Hello,			
I know we made changes to the "expected changes" doc but I do not have the most recent electronic copy. Can you send it to me?			
Thanks,			

Alyssa Quarforth
Program Analyst, Market Sectors Group
ENERGY STAR, Commercial and Industrial Branch
Climate Protection Partnerships Division, US EPA

Mail Code: 6202J Washington DC 20460 202.343.9604 Quarforth.Alyssa@epa.gov

{In Archive} score change reports -- aggregate and public sector Alyssa Quarforth to: Alexandra Sullivan

09/18/2007 04:13 PM

Archive:

This message is being viewed in an archive.

Alexandra,

Attached is the aggregate score change report (with updated numbers) and the public sector score change report. Let me know if you have any questions.

Thanks,





Aly

2007_September Aggregate_Changes.doc Public Sector.doc

Alyssa Quarforth Program Analyst, Market Sectors Group ENERGY STAR, Commercial and Industrial Branch Climate Protection Partnerships Division, US EPA

Mail Code: 6202J Washington DC 20460 202.343.9604 Quarforth.Alyssa@epa.gov

{In Archive} Report on the score changes

Alexandra Sullivan to: Denessa Moses

Archive:

This message is being viewed in an archive.

Denessa,

I totally forgot that you asked for this report earlier.

Thanks, Alexandra Sullivan

U.S. EPA **ENERGY STAR** Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov



2007_September Aggregate_Changes.doc

09/25/2007 05:50 PM



Cc: SOConnell

{In Archive} Portfolio Manager Updates NOW AVAILABLE! OAR-OAP-CPPD-ESCIB, OAR-OAP-CPPD-ESCIB-MSG

10/01/2007 08:51 AM

Archive:

This message is being viewed in an archive.

I am thrilled to announce that Portfolio Manager was successfully updated over the weekend and is now available with the revised Office model, new Retail model, Wastewater Treatment Plants rating and other improvements. We still have a few minor things to take care of (i.e. updates to a couple of web pages, PM Tour, etc.), but no major bugs/show-stoppers.

A BIG THANK YOU to everyone in the Branch who helped along the way - especially Alexandra, Aly, Gwen, Mike, Cindy, Jean and many of the Sector folks...and the contractors. We could not have done it without you!

Thanks, Denessa

```
>>>>>
>>>> Hi Alexandra,
>>>>
>>>> I know I asked you for something similar to this about a year and
>>>> a half ago, but I thought I'd check back and see if there had been
>>>> any major changes.
>>>>
>>>> Can I ask you again if there any documents or studies that show
>>>> how EnergyStar scores are computed, and if they have changed for
>>>> 2013?
>>>>>
>>>> Best,
>>>>
>>>> David
>>>>
>>>>
>>>>
>>>>
>>>> David Hsu
>>>> Assistant Professor
>>>> Department of City and Regional Planning University of
>>>> Pennsylvania
>>>>>
>>>> (e) hsuyd@design.upenn.edu<mailto:hsuyd@design.upenn.edu>
>>>> (tel) 215-746-8543
>>>> (webpage) http://bit.ly/oOVN4W
>>>> (rss) http://bit.ly/g9ZKN9
>>>> (twitter) @d_hsu_work
```

```
>>>>
 >>>> Best,
 >>>>
 >>>> David
 >>>>
 >>>>
 >>>>
>>>>
>>>> David Hsu
>>>> Assistant Professor
>>>> Department of City and Regional Planning University of Pennsylvania
>>>>
>>> (e) hsuyd@design.upenn.edu
>>> (tel) 215-746-8543
>>> (webpage) http://bit.ly/oOVN4W
>>> (rss) http://bit.ly/g9ZKN9
>>>> (twitter) @d_hsu_work
>>>>
>>>>
>>>>
>>> On 12 Jul 2013, at 11:03, Sullivan, Alexandra wrote:
>>>>
>>>> Hi David,
>>>>>
>>>> All of our technical details are published online:
>>>> http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_por
>>>> t f o I iomanager_model_tech_desc Please note that many of our web
>>>> links will be changing next Wednesday, after that time you can
>>>> use:
>>>> www.energystar.gov/ENERGYSTARScore<a href="http://www.energystar.gov/ENERGYSTARScore">http://www.energystar.gov/ENERGYSTARScore</a>.
>>>>>
>>>> There are no major changes for 2013. For our release of Portfolio
>>>> Manager (next week) we will be updating reference data, like the
>>>> weather stations, but the regression models and overall approach
>>>> are unchanged.
>>>>>
>>>> Thanks,
>>>>
>>>> Alexandra Sullivan
>>>>
>>>> U.S. EPA
>>>> ENERGY STAR
>>>> Mail Code 6202J
>>>> Washington, DC 20460
>>>> 202.343.9040
>>>> sullivan.alexandra@epa.gov<mailto:sullivan.alexandra@epa.gov>
>>>> From: David Hsu [mailto:hsuyd@design.upenn.edu]
>>>> Sent: Friday, July 12, 2013 9:49 AM
>>>> To: Sullivan, Alexandra
>>>> Subject: EnergyStar score calculations
```

```
>>>
>>>> Hi David,
>>>>
>>>> Happy to answer:
>>>>
>>>> 1 - The R2 for our models in predicted source EUI is about 0.3 to
>>>> In part these comparatively low R2 values are due to the
>>>> explanatory power of square foot, which is already part of the
>>>> dependent variable.
>>>> We have sometimes used our models and multiplied by Square Foot to
>>>> get a predicted total energy - if you re-compute R2 this way it is
>>>> typically above 0.8.
>>>>
>>>> 2 - The lookup tables depend on the model. Some range from about
>>>> 0.25
>>>> to 3, while others have narrower ranges (0.35 - 2). So, that kind
>>> of depends a little. A ratio of 1.0 is typically in the low 40s,
>>>> because this corresponds to "mean" and the distribution is skewed.
>>>> A
>>>> score of
>>>> 50 is the median, which is typically a little less than 1.0.
>>>>
>>>> Thanks,
>>>>
>>>> Alexandra Sullivan
>>>>
>>>> U.S. EPA
>>>> ENERGY STAR
>>>> Mail Code 6202J
>>> Washington, DC 20460
>>>> 202.343.9040
>>>> sullivan.alexandra@epa.gov
>>>>
>>> -----Original Message-----
>>>> From: David Hsu [mailto:hsuyd@design.upenn.edu]
>>> Sent: Friday, July 19, 2013 2:20 PM
>>>> To: Sullivan, Alexandra
>>> Subject: Re: EnergyStar score calculations
>>>>
>>>> Hi Alexandra,
>>>>
>>>> Can I ask some follow-up questions about the EnergyStar regression
>>>> models? I just want to make sure that I understand them correctly.
>>>>
>>>> 1. What is the ballpark R2 on your models of predicted source EUI?
>>>> 2. What are the typical values on the 1-100 lookup table? For
 >>> example, if I get a score of 50, 75, or 100, then what efficiency
 >>> factors does that represent?
 >>>>
 >>>> If you can share the lookup table and/or details about the
 >>>> regression, that would be really interesting.
```

```
>>> I do not have the those standard errors as part of our general
>>> files.
>>> It is something we could probably re-create if needed for a specific
>>> model, but we do most of the fitting in Excel, and that is not a
>>> standard output there.
>>>
>>> Did you want us to look into one specific model in greater detail?
>>>
>>> Thanks,
>>>
>>> Alexandra Sullivan
>>>
>>> U.S. EPA
>>> ENERGY STAR
>>> Mail Code 6202J
>>> Washington, DC 20460
>>> 202.343.9040
>>> sullivan.alexandra@epa.gov
>>>
>>>
>>> -----Original Message-----
>>> From: David Hsu [mailto:hsuyd@design.upenn.edu]
>>> Sent: Monday, July 22, 2013 11:13 AM
>>> To: Sullivan, Alexandra
>>> Subject: Re: EnergyStar score calculations
>>>
>>> Hi Alexandra,
>>>
>>> Another question: after doing some heavy duty reading of the
>>> "EnergyStar Technical Methodology" documents, I was also wondering
>>> is whether you have standard errors on the estimated parameters for
>>> the gamma distribution.
>>>
>>> Best,
>>>
>>> David
>>>
>>> -----
>>>
>>> David Hsu
>>> Assistant Professor
>>> Department of City and Regional Planning University of Pennsylvania
>>> (e) hsuyd@design.upenn.edu
>>> (tel) 215-746-8543
>>> (webpage) http://bit.ly/oOVN4W
>>> (rss) http://bit.ly/g9ZKN9
>>> (twitter) @d_hsu_work
>>>
>>>
>>> On 22 Jul 2013, at 12:08, Sullivan, Alexandra wrote:
```

```
>> Hi David,
>> Okay. My team is still a little busy with the follow-on work to last
>> week's release. So, since this isn't part of our standard set of
>> output files, you're going to have to give us a few days...but we'll
>> get this on the list!
>>
>> Thanks,
>>
>> Alexandra Sullivan
>>
>> U.S. EPA
>> ENERGY STAR
>> Mail Code 6202J
>> Washington, DC 20460
>> 202.343.9040
>> sullivan.alexandra@epa.gov
>>
>>
>> ----Original Message-----
>> From: David Hsu [mailto:hsuyd@design.upenn.edu]
>> Sent: Monday, July 22, 2013 11:20 AM
>> To: Sullivan, Alexandra
>> Subject: Re: EnergyStar score calculations
>>
>> Hi Alexandra,
>> Just for the Office group would be great.
>>
>> Thanks!
>>
>> David
>>
>>
>> -----
>>
>> David Hsu
>> Assistant Professor
>> Department of City and Regional Planning University of Pennsylvania
>> (e) hsuyd@design.upenn.edu
>> (tel) 215-746-8543
>> (webpage) http://bit.ly/oOVN4W
>> (rss) http://bit.ly/g9ZKN9
>> (twitter) @d_hsu_work
>>
>>
>> On 22 Jul 2013, at 12:18, Sullivan, Alexandra wrote:
>>> Hi David,
 >>>
```

```
> David,
> Yes, we're using the same models from 2007.
> Thanks,
> Alexandra Sullivan
> U.S. EPA
> ENERGY STAR
> Mail Code 6202J
> Washington, DC 20460
> 202.343.9040
> sullivan.alexandra@epa.gov
>
> -----Original Message-----
> From: David Hsu [mailto:hsuyd@design.upenn.edu]
> Sent: Monday, July 22, 2013 12:22 PM
> To: Sullivan, Alexandra
> Subject: Re: EnergyStar score calculations
> Hi Alexandra,
> I certainly understand; I should have congratulated you on the
> release, by the way! Next week is fine.
> One more follow-up: are the predicted EUIs going into the energy
> efficiency ratios still from the same models of the CBECS data that
> you've been using since 2007? Your latest technical methodology
> documents show an R2 of 33% on 498 points, etc.
> David
> -----
> David Hsu
> Assistant Professor
> Department of City and Regional Planning University of Pennsylvania
> (e) hsuyd@design.upenn.edu
> (tel) 215-746-8543
> (webpage) http://bit.ly/oOVN4W
> (rss) http://bit.ly/g9ZKN9
> (twitter) @d hsu work
>
>
> On 22 Jul 2013, at 12:24, Sullivan, Alexandra wrote:
```

Sullivan, Alexandra

From: Sent: To: Subject:	Sullivan, Alexandra Monday, November 04, 2013 12:07 PM David Hsu RE: EnergyStar score calculations
David,	
I apologize, but this actually fe	ll off my radar. I will get this back on the agenda.
Thank you for the reminder!	
Alexandra Sullivan	
U.S. EPA ENERGY STAR Mail Code 6202J Washington, DC 20460 202.343.9040 sullivan.alexandra@epa.gov	
Original Message From: David Hsu [mailto:hsuyo Sent: Monday, November 04, To: Sullivan, Alexandra Subject: Re: EnergyStar score	2013 9:47 AM
Hi Alexandra,	
score lookup table?	n this did your team ever manage to calculate the standard errors on the gamma function e-mail, but I think this may have just have gotten buried in the inbox from four months
David	
David Hsu Assistant Professor Department of City and Regio	onal Planning University of Pennsylvania
(e) hsuyd@design.upenn.edu (tel) 215-746-8543	
On 22 Jul 2013, at 12:37, Sulli	ívan, Alexandra wrote:

Sullivan, Alexandra

From: Sullivan, Alexandra

Sent: Friday, November 14, 2014 2:55 PM

To: **Buildings Service Request**

Cc: Hodges, Lauren; Hutchison, Alena

Subject: **Updated PDF Documents**

Attachments: Data Centers.pdf; Hospital.pdf; Hotel.pdf; K12 Schools.pdf; Medical Office.pdf;

Office.pdf; Residence Hall.pdf; Retail.pdf; Senior Care.pdf; Supermarket.pdf;

Warehouse.pdf; Wastewater.pdf; Worship.pdf

Hi!

We have updated 13 of our ENERGY STAR Score Methodology documents to include one additional metric and to correct a minor error. These documents are all accessible from: www.energystar.gov/ScoreDetails and the T&R library.

I've attached the 13 updated documents. Can we please post these? We've dated them all November, so hopefully you'll have time to get them up this month ©

Please let me know if you have any questions.

Thanks,

Alexandra Sullivan

Sullivan, Alexandra

From:	Cullium Alaumada
Sent:	Sullivan, Alexandra Wodnesday, December 03, 2014 5:06 BM
To:	Wednesday, December 03, 2014 5:06 PM 'David Hsu'
Cc:	Cohen, Jonathan
Subject:	
Attachments:	RE: Copy of Paper (uncertainty in score) 482IDs_NoCourt.xlsx
Accounteres.	4621DS_NOCOUIT.XISX
Hi David,	
Thank you for taking the time to	meet with us. As we discussed, I've attached the file with the 482 Office IDs that were
used in our Office model (i.e. the	IDs excluding the Courthouses, which are not in the public micro data). This is the
same file we provided to John Sco	ofield when he asked. I didn't know you were looking for this information, so next time
you have a question about the CE	SECS data please just ask:)
, and a question about the eb	rees data pieuse just usk .,
Thanks,	
Alexandra Sullivan	
U.S. EPA	
ENERGY STAR	
Mail Code 6202J	
Washington, DC 20460	
202.343.9040	
sullivan.alexandra@epa.gov	
Original Manager	
Original Message	
From: David Hsu [mailto:hsuyd@c	
Sent: Saturday, November 29, 202	14 10:57 PM
To: Sullivan, Alexandra	
Cc: Cohen, Jonathan	
Subject: Re: Copy of Paper (uncer	tainty in score)
Hi Alexandra,	
A call would probably be best, and	d then I can figure out which code and data to send you both for replication. If you
don't mind using this booking pag	e www.meetme.so/davidhsu you can book a time for after Dec. 9th, I should be
more available then.	you can book a time for after bee. Still, I should be
David	
David Hsu	
Assistant Professor	

Department of City and Regional Planning University of Pennsylvania

```
(e) hsuyd@design.upenn.edu
(tel) 215-746-8543
(twitter) @d_hsu_work
(meet) www.meetme.so/davidhsu
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On 20 Nov 2014, at 16:43, Sullivan, Alexandra wrote:

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> HI David,
> I've started looking into this question in greater detail and I'd like
> to try to replicate your result with respect to uncertainty. The
> paper talks in mostly general terms, so I wonder if you could provide
> a little more detail about the mechanics and how we could go about
> reproducing your methodology? I've copied Jonathan Cohen on this
> email, he is one of our consultants at ICF International who helps us
> with model development.
> Can you please let us know if you can give us some more specifics via
> email or if you think it would be helpful to set up a call.
> Thank you,
> Alexandra Sullivan
> U.S. EPA
> ENERGY STAR
> Mail Code 6202J
> Washington, DC 20460
> 202.343.9040
> sullivan.alexandra@epa.gov
 > ----Original Message-----
 > From: David Hsu [mailto:hsuyd@design.upenn.edu]
 > Sent: Thursday, November 06, 2014 11:19 AM
> To: Sullivan, Alexandra
 > Cc: Zatz, Michael
 > Subject: Re: Copy of Paper (uncertainty in score)
 >
 > Hi Alexandra and Mike,
 > This is the paper where I argued that there is inherent uncertainty,
 > and applied the bootstrap. This particular paper has a rather hurried
 > explanation of the details, since the journal is not a heavily
 > statistical one:
 > http://www.tandfonline.com/doi/full/10.1080/09613218.2014.887612
 > If you'd like to discuss it further and how to implement, I'd be happy
 > to.
 > Best, David
```

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> P.S. Actually headed down to Virginia for the American Water Resources
> Association conference right now, but sadly wasn't planning to stop in
> town at all. Next time!
> David Hsu
> Assistant Professor
> Department of City and Regional Planning University of Pennsylvania
> (e) hsuyd@design.upenn.edu
> (tel) 215-746-8543
> (twitter) @d_hsu_work
> (meet) www.meetme.so/davidhsu
> On 6 Nov 2014, at 9:57, Sullivan, Alexandra wrote:
>> Hi David,
>> I know you have applied a bootstrapping approach to estimate
>> uncertainty associated with an ENERGY STAR score, I think you came up
>> with something about +/- 15 points. I am wonder if there is a link
>> to this paper/result or if you have something you can share? We're
>> trying to assess different approaches for determining uncertainty and
>> it would be useful to review the details of your findings.
>> Thanks for the help,
>>
>> Alexandra Sullivan
>> U.S. EPA
>> ENERGY STAR
>> Mail Code 6202J
>> Washington, DC 20460
>> 202.343.9040
>> sullivan.alexandra@epa.gov<mailto:sullivan.alexandra@epa.gov>
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